HP z540 Digital Entertainment Center

Give yourself more living room with the HP Digital Entertainment Center. Put all your digital entertainment—TV, music, movies, photos—into one super sleek device. It's visionary home technology from the home technology visionaries.

invent

Stay connected.

Stay connected. The HP Digital Entertainment center will make friends fast with the rest of your home theater equipment. Connect to your TV or projector through DVI, component video, VGA, S-video or composite video. Enjoy digital or analog surround sound output through your A/V receiver.

Quiet but sexy. The black, brushed-aluminum finish looks at home in your living room or home theater. An ultra-quiet design keeps your focus on your entertainment experience, not your system.

TV at your speed. A high-performance digital encoder and personal video recorder (PVR) let you pause, replay and record from cable, digital cable, digital satellite, or over-the-air TV.

TV on your time. Search for and record your must-see TV shows with the included Electronic Program Guide[1]. You can capture single episodes or entire series onto the HP Digital Entertainment Center. You'll never miss another episode of your favorite show!

Everything at your fingertips.

Everything at your fingertips. A single remote control gives you instant access to all your digital entertainment—TV, DVD movies, home videos, music, photos and FM radio—through Microsoft® Windows® XP Media Center Edition 2005.

Listen in. Make your own CDs or enjoy the ones you already have. You can even select individual songs, create play lists, or search for music by title, artist and album. It's like having a jukebox right in your living room!

Movie magic. Play your favorites or download new ones—and get ready for crisp, clear images and unbeatable surround sound from your big-screen TV.

Your turn to burn. Create your own media library when you record TV shows, home videos and music onto space-saving DVDs with the double-layer DVD±R/RW drive.[2,6]

Focus on fun.

Focus on fun. Transfer your latest and greatest digital photos using the front-panel 9-in-1 memory card reader. Use your remote control to create an impromptu slideshow your family will love.

Hold everything. With the 160GB[3] internal hard drive, you'll have plenty of storage for many hours of recorded TV. Add more instantly with an optional 160GB HP Personal Media Drive.[4]

Reach around the house. The optional HP Media Center Extender streams multimedia content from your HP Digital Entertainment Center to any TV or stereo. So you can watch recorded TV in one room while listening to music files in another. All without having to transfer files or connect peripherals.[5]

[1] Electronic Program Guide provided by Microsoft. Broadband Internet access required at additional cost.
[2] Actual speeds may vary. Does not permit copying of commercially available DVD movies or other copyright-protected materials. Intended only for creation and storage of original material and other lawful uses.
[3] 1GB = 1 billion bytes when referring to hard drive capacity; actual formatted capacity is less.
[4] Sold separately
[5] Extender supports a subset of the Media Center selections.
[6] This PC ships with the Double Layer DVD-Writer which supports single layer and double layer DVD media. Double Layer technology gives you greater capacity and allows you to store up to 8.5GB* data on double layer DVD+R media. Double Layer is a new technology. Double Layer media compatibility will widely vary with some home DVD players and DVD-ROM drives.

Storage

Internal Hard Drive	160GB 7200RPM Serial ATA[1]
Secondary Hard Drive (via HP Personal Media Drive bay)	HP Personal Media Drives can be purchased to support larger media files collections
DVD Player and Recorder	16x double-layer[2] DVD±R/RW Drive; Progressive Scan DVD movie playback[3] at 480p
DVD Read and Write Speeds	16X max. DVD+R, 4X max. DVD+RW, 2.4X max. Double Layer DVD+R[4]; 8X max. DVD-R, 4X max. DVD-RW, 16X max. DVD-ROM[4]; 40X max. CD-R, 24X max. CD-RW, 40X max. CD-ROM[4]

Television and Video

Television Tuners	One NTSC TV tuner with pause, review, and programmable record capabilities; 30FPS, 60Hz frequency
Television Inputs (per tuner)	One RF coaxial; One S-video; One composite video; Stereo RCA jacks (left/right)
Personal Video Recorder	Personal Video Recorder (PVR) with high-performance hardware encoder; Records television digitally to internal hard drive or optional HP Personal Media Drive; Features pause, instant replay and 30-second skip; Compatible with cable, digital cable, digital satellite TV and antenna; Records one TV channel while playing another prerecorded show
Electronic Programming Guide	14-day programming guide for use with Personal Video Recorder; Downloadable at no charge via high-speed broadband Internet connection[5]
Video Processor	ATI RADEON® X300 SE Graphics Card with 128MB DDR memory; 16X PCI-Express
Rear Video Output Jacks	One DVI-D (Digital Video Interface) for connectivity to high-definition displays; One VGA for connectivity to plasma, LCD and DLP displays and projectors; One component video (YPbPr); One S-video; One composite video

Audio

Audio Chip	Intel® High Definition Audio with 7.1 surround sound (pre-amp); 20Hz to 20kHz audio frequency; 85dB audio signal to noise ratio (SNR)
Audio Support	Dolby Digital 5.1 surround sound support; Analog 7.1 pre-amp surround sound support; Supports playback of MP3, AAC, WMA, WAV and PCM music files; Supports playback of audio CDs and DVD-video
Rear Audio Out Ports	Eight RCA audio jacks for 7.1 surround sound analog output; One Toslink optical for 5.1 digital output (S/PDIF); One coaxial for 5.1 digital output (S/PDIF)[6]
Front Audio Out Ports	One ¼" headphone
Front Audio In Ports	Left/right RCA audio; One microphone
FM Tuner	One FM tuner with pause and replay capabilities; Nine user-defined FM preset stations; Range 87.5 - 108.0 MHz; 75ohm RF coaxial antenna included

Computing Power

Processor Model	Intel® Pentium® 4 processor 530[7] with Hyper-Threading Technology[8]; Operates at 3.0GHz[9]
Secondary-Level Cache Size	1MB Integrated Level 2
Front-Side Bus Speed	800MHz
Motherboard Chipset	Intel® 915P Express
System Memory	512MB PC3200 DDR SDRAM; System memory expandable to 2GB

[1] 1GB = 1 billion bytes when referring to hard drive capacity. Actual formatted capacity is less.
[2] Double Layer is a new technology. Double Layer media compatibility will widely vary with some home DVD players and DVD-ROM drives.
[3] Via DVI or component video out; desktop resolution must be set to 640 x 480 for DVD playback via component video.
[4] Actual speeds may vary from maximum speeds. DVD formats not universally compatible.
[5] Electronic Program Guide provided by Microsoft. Broadband Internet access required at additional cost.
[6] External A/V receiver or powered speakers required.
[7] Intel's numbering is not a measurement of higher performance.
[8] The hyper-threading feature is new and complex technology designed to improve performance of multi-threaded software products; please contact your software provider to determine software compatibility. Not all customers or software applications will benefit from the use of hyper-threading. Go to http://www.intel.com/info/hyperthreading for more information.
[9] GHz refers to internal clock speed of the processor. Other factors besides clock speed may impact system and application performance.

Internet Connectivity

Ethernet	10/100/1000 Base-T Gigabit Ethernet (RJ-45)
WiFi	802.11 b/g wireless receiver (removable antenna included)

Peripheral Ports

USB	Two front Hi-Speed USB 2.0; Four rear Hi-Speed USB 2.0
FireWire (IEEE 1394)	One front 4-pin FireWire (IEEE 1394) for connectivity to camcorders; One rear 6-pin FireWire (IEEE 1394)
Media Card Reader	One front-accessible 9-in-1 Flash Media Card Reader; Supports Secure Digital, xD, Smart Media, MultiMedia Card, Compact Flash Types I/II, Microdrive, Memory Stick, Memory Stick Pro
Infrared Transmitter	Two rear infrared (IR) blaster ports with IR blaster cables included; Changes TV channels on digital cable and satellite set-top boxes

Case & Power

Product Finish	Black brushed-aluminum with HP Media Info Display
Power Supply	250W
Power Requirements	100-240V AC, 50/60Hz
Power Management	Energy Star Compliant

Accessories

Keyboard and Trackball	HP lap-sized wireless entertainment keyboard with integrated trackball; Keyboard includes 7 multimedia control keys and 3 programmable keys
Supplied Accessories	HP Digital Entertainment Center infrared remote control; HP Digital Entertainment Center Set-up Book; HP Digital Entertainment Center Getting Started Guide; Microsoft Windows Media Center Edition 2005 Software Guide; System recovery DVD
Supplied Cables	One power cable; One DVI-D video cable; One S-video cable; One left/right RCA audio; Two infrared blasters to control set-top boxes; Two RF coaxial video; One coaxial video splitter
Supplied Antennas	Coaxial FM radio antenna; External 802.11b/g antenna

Dimensions & Weight

Unpackaged Dimensions (Case Only) WxHxD	17.0 in./43.1 cm. x 4.4 in./11.1 cm x 16.6 in./42.2 cm.
Packaged Dimensions WxHxD	24.25 in./61.6 cm. x 11.50 in./29.2 cm. x 20.25 in./51.4 cm.
Unpackaged Weight (Case only)	24.5 lb./11.1 kg.
Packaged Weight	36.0 lb./16.3 kg.

Software

Operating System	Microsoft Windows XP Media Center Edition 2005
Multimedia Applications	Apple iTunes for Windows with exclusive HP Tunes to play back iTunes through Media Center; HP Image Zone Plus with exclusive HP Image Zone for Media Center; muvee autoProducer software to automatically create home videos through Media Center; Sonic RecordNow to burn CDs/DVDs and make data back-ups

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Operating requirements

Minimum	TV or high-resolution display with DVI, VGA, S-video, component video or composite video; High-speeed Broadband Internet connection (to download Electronic TV Programming Guide. Internet connection purchased separately); TV signal source (via cable, satellite or antenna); Self-powered amplified speakers or basic A/V receiver
Recommended	High definition TV or display (LCD, plasma, rear projection, front projection); A/V receiver with 5.1 or greater surround sound output

Service and support information

Limited Warranty	One year parts and labor
Telephone Support	One year toll-free hardware support (24/7/365); 90 days toll-free software support
Repair Options	Servicing options may include: Customer replaceable parts; Return to HP for repair; Use HP authorized service provide; Visit www.hp.com/support for more information
Support Options	Click on desktop icon for built-in Help and Support Center; Visit www.hp.com/support for easy access to online FAQs and troubleshooting information; Call HP Customer Care toll-free 24/7 for direct, knowledgable assistance
Extended service plan	Choose from a variety of HP Extended Service Plans to meet your unique needs; Call 1-866-234-1377 or visit www.hp.com/ownerservices for more information

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